

***Remarks***

Reconsideration of this Application is respectfully requested.

Claims 1-22 and 26-28 are pending in the application, with claims 1, 6, 12, 19 and 26 being the independent claims. Claims 23 and 25 were previously cancelled.

Based on the following remarks, Applicants respectfully request that the Examiner reconsider all outstanding objections and rejections and that they be withdrawn.

***Allowable Subject Matter***

Applicants acknowledge with appreciation the Examiner's indication that claims 6-18 are allowed.

***Rejections under 35 U.S.C. § 102***

Claims 1-5 and 19-28 stand rejected under 35 U.S.C. 102(b) as being allegedly anticipated by U.S. Patent No. 4,143,322 to Shimamura ("Shimamura"). Applicants respectfully traverse this rejection.

Technical differences exist between claim 1 and Shimamura. Specifically, Shimamura does not at least teach or suggest "aliasing the FM signal at an aliasing rate with a first local oscillator (LO) signal," as recited in claim 1. Shimamura discloses a carrier wave recovery system whereby a radio frequency (RF) signal is mixed with signals 102 and 103 using multipliers 11 and 21. *See* FIG. 3 of Shimamura. Further, "[l]ow frequency components of the multipliers 11 and 21 are derived by low pass filters 12 and 22." Shimamura, Col. 2, lines 57-59.

Accordingly, claim 1 is patentable over Shimamura because the RF signal is not aliased, it is instead heterodyned with signals 102 and 103 and subsequently filtered to produce the low frequency components. Independent claims 19 and 26 are also patentable over Shimamura for at least the reasons provided above.

Claims 2-5 depend from claim 1. Claims 20-22 depend from claim 19. Claims 27-28 depend from claim 26. They are thus patentable over Shimamura for at least the reasons provided above, and further view of their own features. Applicants therefore request that the Examiner reconsider and withdraw the rejection of claims 1-5 and 19-28.

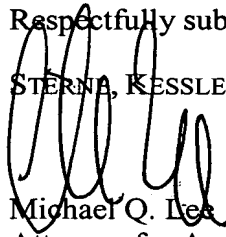
***Conclusion***

All of the stated grounds of objection and rejection have been properly traversed, accommodated, or rendered moot. Applicants therefore respectfully request that the Examiner reconsider all presently outstanding objections and rejections and that they be withdrawn. Applicants believe that a full and complete reply has been made to the outstanding Office Action and, as such, the present application is in condition for allowance. If the Examiner believes, for any reason, that personal communication will expedite prosecution of this application, the Examiner is invited to telephone the undersigned at the number provided.

Prompt and favorable consideration of this Reply is respectfully requested.

Respectfully submitted,

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